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Attorney Docket No.: QTL-00800

BOX NEW PATENT APPLICATION

Assistant Commissioner for Patents
Washington, D.C. 20231

NEW APPLICATION TRANSMITTAL

Sir:

Transmitted herewith for filing is the patent application of Inventor: Ronald C. Elliott et al.

Title: PORTABLE COT APPARATUS

CERTIFICATION UNDER 37 CFR § 1.10

I hereby certify that this New Application and the documents referred to as enclosed herein are being deposited with the United States Postal Service on this date, April 26, 1999, in an envelope bearing "Express Mail Post Office To Addressee" Mailing Label Number EL188667678US addressed to: **PATENT APPLICATION**, Assistant Commissioner for Patents, Washington, D.C. 20231.

Danielle Dalton
(Name of Person Mailing Paper)

Signature

Enclosed are:

1. The papers required for filing date under CFR § 1.53(b):

15 Pages of Specification (including claims); 4 Sheet(s) of Drawings.
Formal
X Informal

X Declaration or Oath
X Power of Attorney By Assignee
— Assignment of the Invention to QTL Corporation (including Form PTO-1595).

Fee Calculation

— Amendment changing number of claims or deleting multiple dependencies is enclosed.

CLAIMS AS FILED

	Number Filed	Number Extra	Rate	Basic Fee
				\$760.00
Total Claims	23 - 20 =	3	\$18.00	54.00
Independent Claims	3 - 3 =	0	\$78.00	0.00
Multiple Dependent claim(s), if any			\$260.00	0.00
			Filing Fee Calculation	\$814.00

- 6.
- X
- Verified Statement (Declaration) Claiming Small Entity Status

50% Filing Fee Reduction (if applicable)

\$407.00

7. Other Fees

— Assignment Recordation Fee

— Other

0.00

TOTAL FEES ENCLOSED

\$407.00

8. Payment of Fees

X Check in the amount of \$407.00 enclosed.

- 9.
- X
- Authorization to Charge Additional Fees

The Commissioner is hereby authorized to charge any additional fees (or credit any overpayment) associated with this communication and which may be required under 37 CFR § 1.16 or § 1.17 to Account No. 08-1275. **An originally executed duplicate of this transmittal is enclosed for this purpose.**

10. — Information Disclosure Statement

- 11.
- X
- Return Receipt Postcard

Dated: April 26, 1999

By:

Name: Jonathan O. OwensRegistration No.: 37,902

jc594 U.S. PTO
09/299859
04/26/99

PATENT

Attorney Docket No. QTL-00800

Applicant Or Patentee: Ronald C. Elliott

Serial or Patent No.:

Filed or Issued:

Entitled: **PORTABLE COT APPARATUS****VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY
STATUS (37 CFR § 1.9(c)) - SMALL BUSINESS CONCERN**

I hereby declare that I am

 the owner of the small business concern identified below
 X an official of the small business concern empowered to act on behalf of the concern identified below.

Name of Concern: QTL Corporation
 Address of Concern: 1353 Dayton Street
 Salinas, CA 93901

I hereby declare that the above-identified small business concern qualifies as a small business concern as defined in 13 CFR §§ 121.3-18, and reproduced in 37 CFR § 1.9(d), for purposes of paying reduced fees under Sections 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention entitled **PORTABLE COT APPARATUS** by inventor(s) Ronald C. Elliott et al. as described in:

 X the specification filed herewith
 Application Serial No. , filed
 Patent No. , issued

If the rights held by the above-identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who could not qualify as a small business concern under 37 CFR § 1.9(d) or by any concern which would not qualify as a small business concern under 37 CFR § 1.9(d) or a nonprofit organization under 37 CFR § 1.9(e).

*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities (37 CFR § 1.27)

Full Name: _____
 Address: _____
 [] Individual [] Small Business Concern [] Nonprofit Organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR § 1.28(b)).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Name of Person Signing: Ronald C. Elliott
 Title in Organization: President
 Address of Person Signing: QTL Corporation, 1353 Dayton Street, Salinas, CA 93901

Dated:

April 22, 1999

Signature:

R. Elliott

663440 15866250

PATENT
Atty. Docket No.: QTL-00800

PORTABLE COT APPARATUS

FIELD OF THE INVENTION:

5 The present invention relates to the field of cots. More particularly, this invention relates to cots that are both stackable and portable.

BACKGROUND OF THE INVENTION:

10 Cots have many uses and have been well known for many years. Cots have widespread use in conjunction with such outdoor activities as mountain climbing, fishing, boating, hunting, camping, and the like. Further, such portable cots can be utilized as an extra bed in a home, napping area at a day care facility, and any location where a temporary sleeping/resting device is sometimes needed.

15 Some portable cots have hinged bars along the side of the portable bed and leg members hingedly affixed to the side rails. These portable cots are cumbersome to assemble and uncomfortable to utilize. Further, these portable cots are generally not stackable.

20 Other portable beds that are stackable generally require the use of tools during assembly and disassembly. One example of such a portable cot is shown in U.S. Patent No. 4,958,390. The portable cot shown in U.S. Patent No. 4,958,390 requires the use of tools to either assemble or disassemble this portable cot. When completely assembled, this portable cot utilizes numerous screws to securely hold components of the portable cot together. A screw driver is therefore necessary in order to assemble or disassemble this portable cot.

25 Portable cots are also made from aluminum tubing. This aluminum tubing is light in weight and allows the portable cot to have legs which are hingedly attached. An example of such a portable bed is shown in U.S. Patent No. 3,839,754. However, the portable cot described in U.S. Patent No. 3,839,754, can neither be disassembled nor stackable with other portable cots.

Many of these prior portable beds are either difficult to assemble, difficult to disassemble, and/or not stackable. What is needed is a portable bed apparatus which is easily assembled and disassembled without the use of tools. What is also needed is a portable bed apparatus that is easily stackable for storage.

SUMMARY OF THE INVENTION:

A stackable, portable cot apparatus is easily assembled and disassembled preferably without the use of any tools. The portable cot apparatus preferably includes a flexible support, a plurality of support members, and a plurality of connectors. Alternatively, the portable cot apparatus also includes a plurality of extension legs. When assembled together, the plurality of support members and the plurality of connectors form a cot frame of the portable cot apparatus. Preferably, the flexible support is configured to support the weight of a user and includes three permanent fasteners and a detachable fastener. The permanent fasteners and the detachable fastener preferably and removably attach the flexible support to the cot frame of the portable cot apparatus. Preferably, the detachable fastener is selectively attachable both prior to and after the cot frame of the portable cot apparatus is already assembled. The detachable fastener is preferably a hook and loop fastener. The permanent fasteners are preferably selectively attachable to the plurality of connectors prior to assembling the cot frame of the portable cot apparatus. Once the cot frame, the permanent fasteners, and the detachable fastener are properly assembled, the flexible support is configured to support a user while utilizing the portable cot apparatus. Preferably, the plurality of connectors are configured to maintain the cot frame a predetermined distance above the ground such that the flexible support does not contact the ground while the user rests on the portable cot.

BRIEF DESCRIPTION OF THE DRAWINGS:

Figure 1 illustrates a perspective view of a preferred embodiment of the present invention.

Figure 2 illustrates a perspective view of a connector within the preferred embodiment of the present invention.

Figure 3 illustrates two portable cots without legs configured to stack on top of each other.

Figure 4 illustrates two portable cots with legs configured to stack on top of each other.

DETAILED DESCRIPTION OF THE INVENTION:

Figure 1 illustrates a perspective view of the preferred embodiment of the present invention. The present invention is a portable cot apparatus 100 which preferably allows a user to conveniently assemble and disassemble the portable cot apparatus 100 without utilizing any tools. While assembled, the portable cot apparatus 100 provides the user with a comfortable place to rest and/or sleep. Further, while still assembled, the portable cot apparatus 100 is designed to allow multiple portable cot apparatuses 100 to stack within each other to save space when the cots are not being utilized. The portable cot apparatus 100 can be disassembled by separating its components, making the portable cot apparatus 100 easy to transport. Preferably, this disassembly is also performed without the use of any tools.

The portable cot apparatus 100 comprises a frame structure 190 and a flexible support 120. The frame structure includes corner connectors 110, 111, 112, and 113 and rail structures 150, 155, 160, and 165. A perspective view of a corner connector 200 is illustrated in Figure 2. The corner connector 200 is representative of the corner connectors 110, 111, 112, and 113. The corner connector 200 preferably has four openings, including two horizontal frame openings 210 and 220 and two vertical support openings 230 and 240. The corner connector 200 also includes an integrated leg 235. Each of the horizontal frame

openings 210 and 220 is preferably configured to accept an end of a rail structure such as the rail structures 150, 155, 160, and 165 (Figure 1). The vertical support opening 240 is preferably configured to accept the integrated leg 235 of another corner connector of another cot when two or more cots are stacked together. The vertical support opening 230 extends
5 through the integrated leg 235. Together, the vertical support openings 230 and 240 form a single vertical passage through the connector 200. Within an alternate embodiment, the vertical support opening 230 accepts an extension leg, such as the legs 180, 181, 182, and 183 (Figure 1). These extension legs 180, 181, 182, and 183 are added to the frame structure 190 to raise the frame structure 190 to a predetermined height above the ground. This
10 predetermined height is adjusted by varying the length of the extension legs 180, 181, 182, and 183.

Preferably, each of the horizontal frame openings 210 and 220 is also configured to securely and snugly hold an end of an appropriate rail structure without the use of any tools or the need for additional hardware such as clamps, screws, bolts, brackets, or the like. Both
15 of the horizontal frame openings 210 and 220 are capable of securely holding any of the rail structures 150, 155, 160, and 165 when the appropriate rail structure is pushed into place within one of the openings 210 and 220 by the user. This process of pushing the appropriate rail structure into one of the openings 210 and 220 requires no tools. Additionally, the resulting connection between the one of the openings 210 and 220 and the end of the
20 appropriate rail structure preferably remains firmly coupled and is referred to as "pressure fitted". Similar to the process of coupling, each of the openings 210 and 220 is also preferably configured to release the appropriate rail structure without any tools. Because the appropriate rail structure and one of the openings 210 and 220 are pressure fitted together, to disassemble a rail structure from a connector, the user pulls the appropriate rail structure away
25 from the appropriate opening 210 or 220 to release the pressure holding the pieces together.

In the preferred embodiment illustrated in Figure 1, the rail structure 150 is coupled between the corner connectors 111 and 112 to form a side of the frame structure 190.

Additionally, the rail structure 155 is coupled between the corner connectors 110 and 113 to form a side of the frame structure 190. The rail structure 160 is preferably coupled between the corner connectors 112 and 113 to form an end of the frame structure 190. The rail structure 165 is preferably coupled between the corner connectors 110 and 111 to form an end of the frame structure 190. Each of the rail structures 150, 155, 160, and 165 are configured to removably couple with the appropriate corner connectors 110, 111, 112, and 113 to preferably form a cot frame 190. Preferably, the rail structures 150, 155, 160, and 165 and the corner connectors 110, 111, 112, and 113 hold the cot frame 190 together. Further, the cot frame 190 is also preferably held together, in part, by the flexible support 120 as discussed in detail below.

In an alternate embodiment, the cot frame 190 is raised above a ground level and rests on the extension legs 180, 181, 182, and 183. Each of these legs is inserted into and held within the vertical support opening 230 of the appropriate corner connector. For example, the extension leg 180 is coupled to the corner connector 110; the extension leg 181 is coupled to the corner connector 111; the extension leg 182 is coupled to the corner connector 112; and the extension leg 183 is coupled to the corner connector 113.

Preferably, the cot frame 190 is capable of being assembled and disassembled without any tools. The corner connectors 110, 111, 112, and 113 are preferably configured to retain an end of an appropriate rail structure through the pressure fitted connection. Also, preferably a sufficient length of the end of the rail structures are held within the horizontal openings of the connectors to provide sufficient rigidity and strength to the overall frame structure, without requiring the use of any additional securing devices, such as screws or bolts. Alternatively, a bolt, screw or other securing device is utilized to provide additional support to the combination of the horizontal opening and the end of the rail structure.

It will be apparent to those skilled in the art to utilize any number of support members, connectors, or legs to comprise the cot frame 190. Although not specifically stated,

it will also be apparent to those skilled in the art to utilize any appropriate combination of dimensions for the rail structures and legs.

The flexible support 120 preferably comprises permanent fasteners 170, 171, and 172, and a detachable fastener 130. Each of the permanent fasteners 170, 171, and 172 are preferably configured to couple with the rail structures 165, 150, and 155, respectively. Preferably, the permanent fasteners 170, 171, and 172 are formed by wrapping a portion of the flexible support 120 over and onto itself and securing an edge of this portion back onto the flexible support 120 by heat sealing, thereby forming a sleeve. Alternatively, the edges of the flexible support 120 are also sealed by reinforced stitching. The permanent fasteners 170, 171, and 172, preferably have sufficient strength to remain coupled with their respective rail structure while supporting the weight of the user.

The detachable fastener 130 preferably comprises a loop fabric portion 140 and a hook fabric portion 145. Preferably, the loop fabric portion 140 and the hook fabric portion 145 are configured to removably and selectively couple with each other. As shown in Figure 1, the loop fabric portion 140 is preferably attached to an edge portion of the flexible support 120. Further, the hook fabric portion 145 is shown attached to the flexible support 120. Both the loop fabric portion 140 and the hook fabric portion 145 are preferably attached to and positioned on the flexible support 120 such that the detachable fastener 130 is configured to selectively and securely couple to the rail structure 160 by wrapping around the rail structure and securing the hook fabric portion 145 to the loop fabric portion 140. Further, the detachable fastener 130 also preferably has sufficient strength to remain secured around the rail structure 160 while supporting the weight of the user. The flexible support 120 can be tightened or loosened, as appropriate, by adjusting the relationship of the hook fabric portion 145 to the loop fabric portion 140.

The preferred embodiment utilizes the detachable fastener 130 which includes the interlocking hook and loop fabric portions 145 and 140. In alternate embodiments, as should be apparent to those skilled in the art, different types of appropriate detachable fasteners such

as zippers, snaps, quick-releases, and the like can be utilized in place of the interlocking hook and loop fabric found in the detachable fastener 130.

In alternate embodiments, any combination of the permanent fasteners 170, 171, and 172 can be substituted with a detachable fastener similar to the detachable fastener 130.

Further, the detachable fastener 130 can also be substituted for a permanent fastener similar to the permanent fasteners 170, 171, and 172.

In the preferred embodiment, a receptacle 250 is located in close proximity to the vertical support opening 240 of the connector 200, as shown in Figure 2. Preferably, the receptacle 250 is configured to retain an integrated leg 235 from a corner connector of a different portable cot. The receptacle 250 is preferably utilized to allow more than one portable cot apparatus 100 (Figure 1) to neatly and securely stack within each other by inserting an appropriate integrated leg 235 of a corner connector of one portable cot apparatus within the receptacle 250 of another portable cot apparatus. Specific details of stacking and nesting are described in detail below and shown in Figures 3 and 4.

Figure 3 illustrates two portable cots without extension legs which are configured to securely stack together in a vertical stack to conserve space. Bottom and top portable cots 300 and 350 are similar to the portable cot apparatus 100 (Figure 1) without the extension legs 180, 181, 182, and 183, as shown in Figure 1. The bottom portable cot apparatus 300 is preferably configured to allow a top portable cot apparatus 350 to securely nest within the bottom portable cot apparatus 300. By nesting the top apparatus 350 within the bottom apparatus 300, the present invention allows two portable cots to be securely stored while conserving space. The bottom portable cot apparatus 300 includes a plurality of connectors 310 wherein each of the plurality of connectors 310 further includes the receptacle 250 including the vertical support opening 230. This receptacle 250 is also described above and illustrated in Figure 2. Each vertical support opening 230 is preferably configured to securely hold a caster. By utilizing a caster at each vertical support opening 230, the bottom portable cot apparatus 300 in a stack is configured to be easily moved across the ground.

Alternatively, any cot apparatus can include casters, as appropriate, at each vertical support opening 230, for easy relocation of the cot apparatus.

The top portable cot apparatus 350 preferably includes a plurality of connectors 360 wherein each of the plurality of connectors 360 further includes an integrated leg 235. The top apparatus 350 is configured to securely nest within the bottom apparatus 300 by resting each of the integrated legs 235 of the connectors 360 of the top apparatus 350 within a corresponding receptacle 250 of the bottom apparatus 300. Each of the receptacles 250 within the connectors 310 securely hold the integrated legs 235 of the connectors 360 to prevent the cot 350 from being knocked off or slipping from the portable cot 300.

Figure 4 illustrates an alternate embodiment showing two portable cots including extension legs which are configured to securely stack together in such a manner to conserve space. Bottom and top portable cots 400 and 450 are similar to the portable cot apparatus 100 (Figure 1). The bottom portable cot apparatus 400 is configured to allow a top portable cot apparatus 450 to securely nest within the bottom portable cot apparatus 400. By nesting the top apparatus 450 within the bottom apparatus 400, the present invention allows two portable cots to be securely stored while conserving space. The bottom portable cot apparatus 400 includes a plurality of corner connectors 410 wherein each of the plurality of corner connectors 410 further includes the vertical support opening 240. This vertical support opening 240 is also described above and illustrated in Figure 2. The top portable apparatus 450 includes a plurality of legs 460. The top apparatus 450 is configured to securely nest within the bottom apparatus 400 by positioning each of the plurality of extension legs 460 of the top apparatus 450 within a corresponding vertical support opening 240 within the corner connectors 410 of the bottom portable cot apparatus 400.

To assemble the portable cot apparatus 100, the cot frame 190 (Figure 1) is assembled with the flexible support 120. To begin this assembly, the rail structure 150 is preferably slipped through the permanent fastener 171. Next, the corner connectors 111 and 112 are appropriately coupled to the rail structure 150 by inserting each end of the rail structure into

an appropriate horizontal support opening within the corner connectors 111 and 112 thereby forming a pressure fit between the end of the rail structure and the corresponding horizontal support opening. The rail structure 155 is then slipped through the permanent fastener 172, and the corner connectors 110 and 113 are appropriately coupled to the rail structure 155 by inserting each end of the rail structure into an appropriate horizontal support opening within the corner connectors 110 and 113 thereby forming a pressure fit between the end of the rail structure and the corresponding horizontal support opening.

The rail structure 165 is then slipped through the permanent fastener 170. Next, the rail structure 165 is appropriately coupled to the corner connectors 110 and 111 by inserting each end of the rail structure into an appropriate horizontal support opening within the corner connectors 110 and 111 thereby forming a pressure fit between the end of the rail structure and the corresponding horizontal support opening. The rail structure 160 is then coupled to the corner connectors 112 and 113 by inserting each end of the rail structure 160 into an appropriate horizontal support opening within the corner connectors 112 and 113 thereby forming a pressure fit between the end of the rail structure and the corresponding horizontal support opening.

To complete the assembly of the cot frame 190, the detachable fastener 130 is wrapped around the rail structure 160 and secured by attaching the loop fabric portion 140 to the hook fabric portion 145. In an alternate embodiment, the extension legs 180, 181, 182, and 183 are coupled to the corner connectors 110, 111, 112, and 113, respectively.

As described above, the assembly of the portable cot apparatus 100 is preferably performed without the use of tools. Complete disassembly of the portable cot apparatus 100 is a convenient, simple process that is also preferably accomplished without any tools. To disassemble the portable cot apparatus 100, a user reverses the steps outlined above to assemble the portable cot apparatus 100, by separating the corner connectors 110, 111, 112 and 113 from the rail structures 150, 155, 160 and 165.

In order to remove the flexible support 120, disassembling the entire portable cot 100 is unnecessary. The corner connectors 110 and 111 must be disconnected from the rail structures 150, 155, and 165 in order to separate the flexible support 120 from the frame structure 190. Because connections between each rail structure and corresponding corner connectors are formed by a pressure fit, these connections are disconnected without the use of tools. By disconnecting the corner connectors 110 and 111 from the rail structures 150, 155, and 165, the permanent fastener 170 is removed from the rail structure 165. The detachable fastener 130 is disengaged from the rail structure 160 by pulling the loop fabric portion 140 and the hook fabric portion 145 away from each other. The flexible support 120 is then removed from the portable cot 100 by sliding the flexible support 120 such that the permanent fasteners 171 and 172 are disconnected from the rail structures 150 and 155, respectively.

The present invention has been described in terms of specific embodiments incorporating details to facilitate the understanding of the principles of construction and operation of the invention. Such reference herein to specific embodiments and details thereof is not intended to limit the scope of the claims appended hereto. It will be apparent to those skilled in the art that modifications may be made in the embodiment chosen for illustration without departing from the spirit and scope of the invention.

Specifically, it will be apparent to one of ordinary skill in the art that the device of the present invention could be implemented in several different ways and the embodiments disclosed above are only exemplary of the preferred embodiment and the alternate embodiments of the invention and is in no way a limitation. In particular, the detachable fastener utilizing hook and loop fabric can be substituted by other detachable fasteners such as zippers, snaps, quick-releases, and the like.

C L A I M S

We Claim:

1. A portable cot apparatus for supporting a user comprising:
 - a. a stackable frame structure for supporting the portable cot apparatus; and
 - b. a flexible support having a detachable fastener for removably and selectively coupling the flexible support to the stackable frame structure,wherein the stackable frame structure is configured to interlock with another stackable frame structure for stacking multiple portable cots.
2. The portable cot apparatus according to claim 1 wherein the stackable frame structure further comprises a plurality of corner connectors and a plurality of rail structures.
3. The portable cot apparatus according to claim 2 wherein the detachable fastener is a hook and loop fastener.
4. A portable cot apparatus for supporting a user, comprising:
 - a. a plurality of rail structures;
 - b. a plurality of corner connectors configured for removably coupling with the plurality of rail structures without utilizing any tools; and
 - c. a flexible support having a detachable fastener configured to removably couple to one of the plurality of support structures.
5. The portable cot apparatus according to claim 4 wherein the flexible support further comprises at least one permanent fastener configured to couple to one of the plurality of rail structures.

1 6. The portable cot apparatus according to claim 5 wherein the permanent fastener forms
2 a side of the flexible support. stitched together.

1 7. The portable cot apparatus according to claim 6 wherein the side of the flexible
2 support is stitched together.

1 8. The portable cot apparatus according to claim 4 wherein each of the plurality of
2 connectors comprises a vertical opening configured to receive the connector from another
3 portable cot.

1 9. The portable cot apparatus according to claim 4 wherein each of the plurality of
2 connectors comprises an integrated leg configured to hold the support apparatus at a
3 predetermined distance above the ground.

1 10. The portable cot apparatus according to claim 4 wherein the plurality of connectors are
2 configured to retain a different portable cot apparatus such that the different portable cot
3 apparatus is stackable on top of the portable cot apparatus.

1 11. The portable cot apparatus according to claim 4 further comprising a plurality of
2 extension legs wherein each of the plurality of extension legs is coupled to one of the
3 plurality of connectors for supporting the portable cot apparatus at a predetermined height.

1 12. The portable cot apparatus according to claim 11 wherein each of the plurality of
2 connectors comprises an opening configured to receive one of the plurality of extension legs
3 to allow stackability of the portable cot apparatus.

1 13. The portable cot apparatus according to claim 4 wherein each of the plurality of
2 connectors comprises an opening configured to receive one of the plurality of connectors to
3 allow stackability of the portable cot apparatus.

1 14. The portable cot apparatus according to claim 4 wherein the flexible support is a fabric
2 material.

1 15. The portable cot apparatus according to claim 4 wherein the detachable fastener
2 comprises:

- 3 a. a loop fabric fastener coupled to the flexible support; and
4 b. a hook fabric fastener coupled to the flexible support and configured for
5 selectively coupling with the loop fabric fastener.

6 16. A portable cot apparatus for allowing a user to easily assemble and disassemble a
7 sleeping surface of the portable cot apparatus, the portable cot apparatus comprising:

- 8 a. a frame for supporting the portable cot apparatus; and
9 b. a flexible support selectively coupled to the frame and including a detachable
10 fastener configured for removably fastening the flexible support to the frame.

1 17. The portable cot apparatus according to claim 16 wherein the frame is configured to
2 interlock with another modular frame for stacking multiple portable cots.

1 18. The portable cot apparatus according to claim 16 further comprising a plurality of
2 extension legs coupled to the frame and configured to maintain the portable cot apparatus at a
3 predetermined height.

1 19. The portable cot apparatus according to claim 16 wherein the frame further comprises
2 a recess configured to allow multiple portable cots to be stacked on top of each other.

1 20. The portable cot apparatus according to claim 16 wherein the flexible support
2 comprises a fabric material.

1 21. The portable cot apparatus according to claim 16 wherein the frame further comprises:
2 a. a rail structure; and
3 b. a corner connector removably coupled to the rail structure,
4 wherein the corner connector is configured to slide over the rail structure and to form a
5 pressure fitted connection without utilizing any tools.

6 22. The portable cot apparatus according to claim 21 wherein the detachable fastener is
7 configured to apply pressure against the rail structure to ensure that the corner connector
8 remains coupled to the support member while the detachable fastener is coupled to the rail
9 structure.

10 23. The portable cot apparatus according to claim 16 wherein the detachable fastener
11 comprises a hook fabric portion attached to the flexible support and a loop fabric portion
12 attached to the flexible support, wherein the hook fabric portion is configured to removably
13 couple to the loop fabric portion.
14

ABSTRACT

A stackable, portable cot apparatus is easily assembled and disassembled preferably without the use of any tools. The portable cot apparatus preferably includes a flexible support, a plurality of support members, and a plurality of connectors. Alternatively, the portable cot apparatus also includes a plurality of extension legs. When assembled together, the plurality of support members and the plurality of connectors form a cot frame of the portable cot apparatus. Preferably, the flexible support is configured to support the weight of a user and includes three permanent fasteners and a detachable fastener. The permanent fasteners and the detachable fastener preferably and removably attach the flexible support to the cot frame of the portable cot apparatus. Preferably, the detachable fastener is selectively attachable both prior to and after the cot frame of the portable cot apparatus is already assembled. The detachable fastener is preferably a hook and loop fastener. The permanent fasteners are preferably selectively attachable to the plurality of connectors prior to assembling the cot frame of the portable cot apparatus. Once the cot frame, the permanent fasteners, and the detachable fastener are properly assembled, the flexible support is configured to support a user while utilizing the portable cot apparatus. Preferably, the plurality of connectors are configured to maintain the cot frame a predetermined distance above the ground such that the flexible support does not contact the ground while the user rests on the portable cot.

100

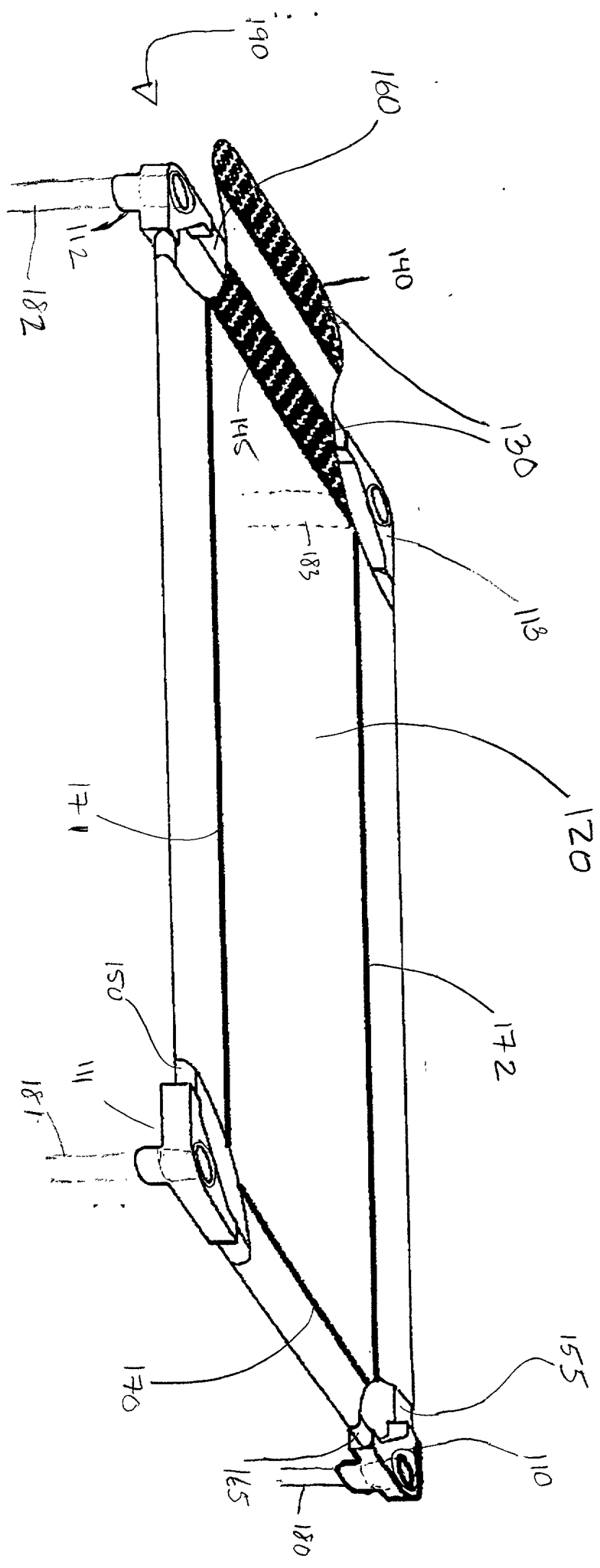


Figure 1

09299859.042699

200

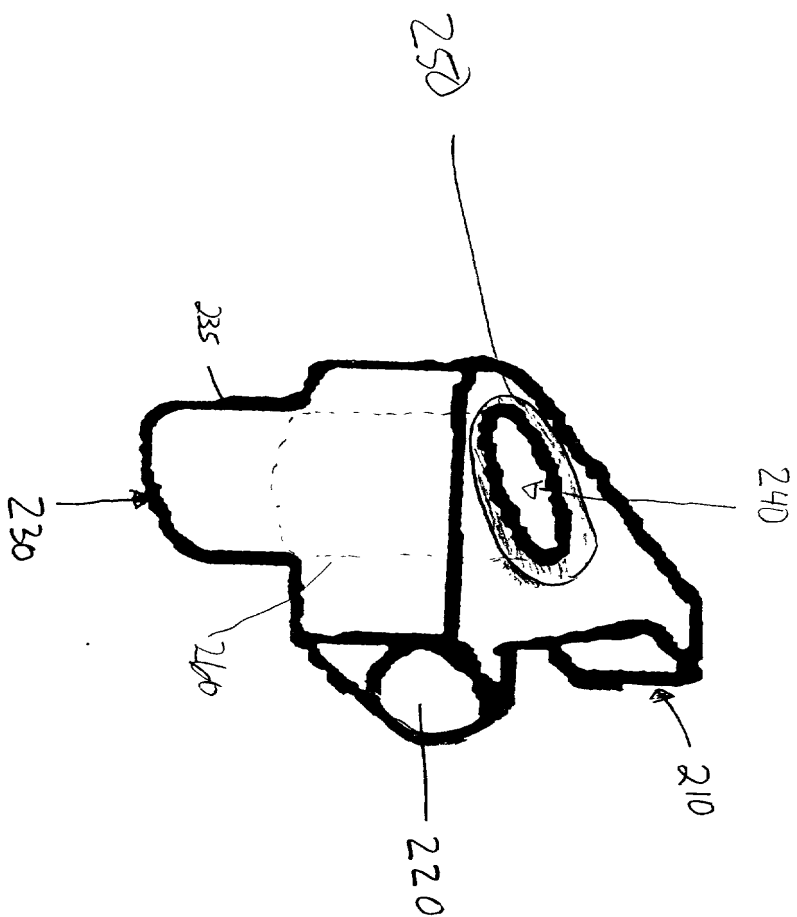


Figure 2

09290559.042699

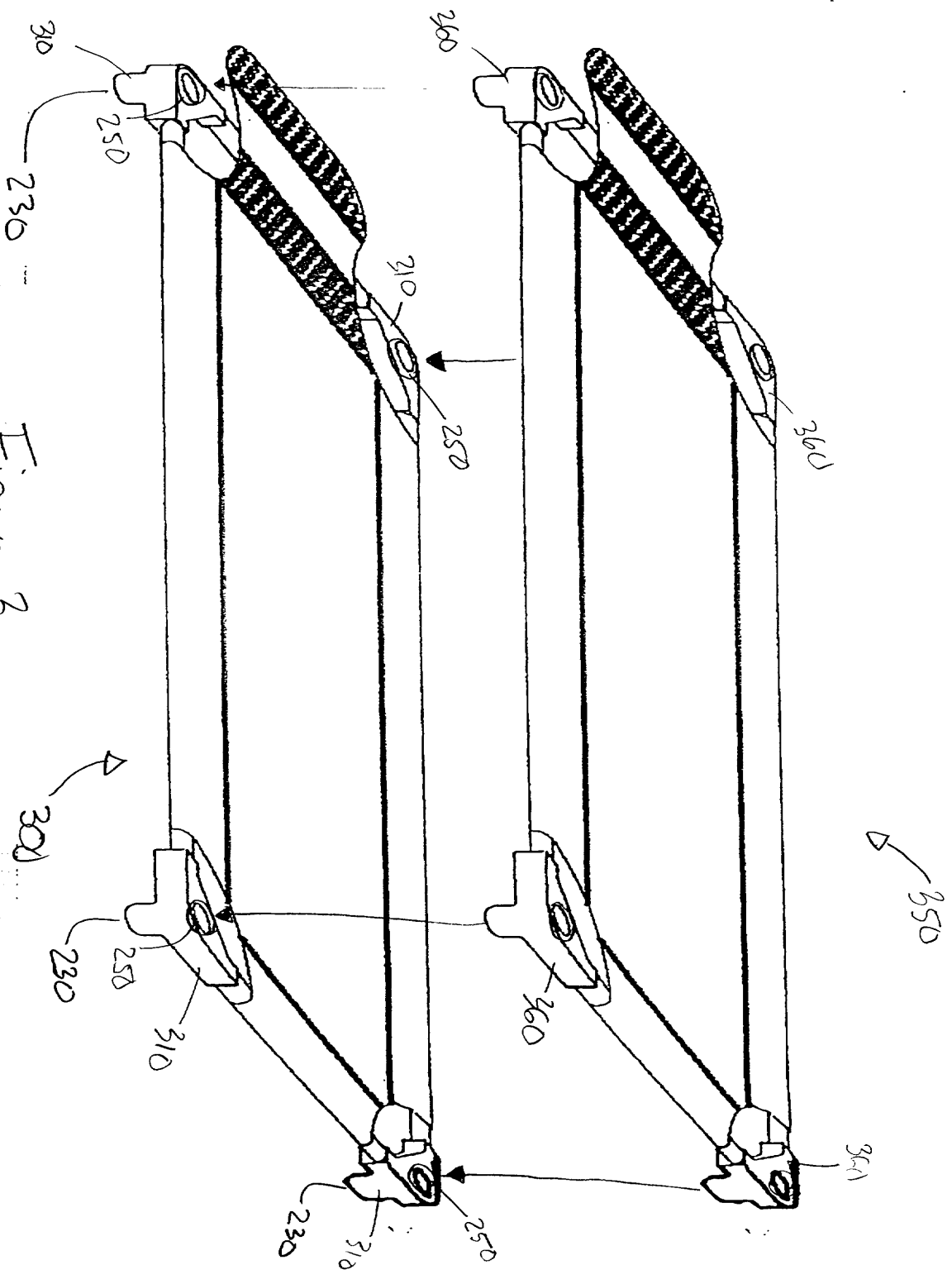
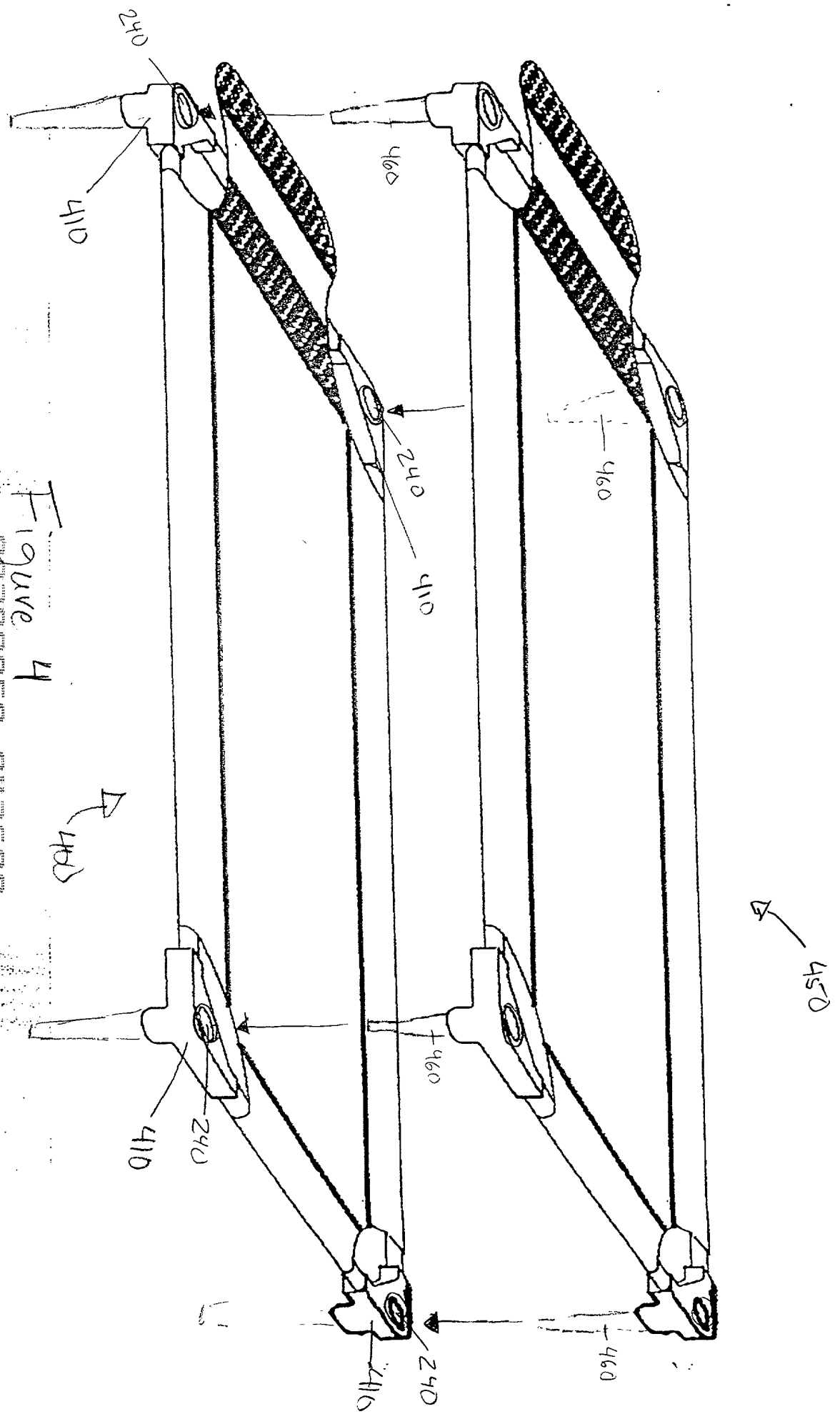


Figure 3

SCANNED5

Figure 4



DECLARATION FOR PATENT APPLICATION

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name. I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **PORTABLE COT APPARATUS**. The specification of which is attached hereto. I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Claim

Yes No

--	--

Number

Country

Day/Month/Year Filed

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No

Filing Date

Status: Patented, Pending, Abandoned

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of First Joint Inventor: Ronald C. Elliott

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Inventor's Signature: Renee Farrington

Date

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Full Name of Third Joint Inventor: Teresa Martini

Inventor's Signature: Teresa Martini

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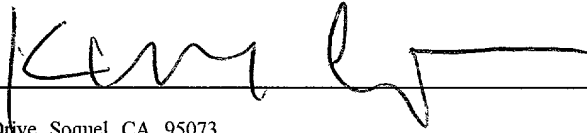
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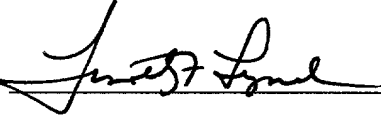
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PATENT
Attorney Docket No. QTL-00800

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:) Group:
) Art Unit:
Ronald C. Elliott <i>et al.</i>) Examiner:
)
Serial No.:)
)
Filed:) POWER OF ATTORNEY BY ASSIGNEE
)
For: PORTABLE COT APPARATUS)
)

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

QTL Corporation, Assignee of the above-identified application by Assignment dated _____ hereby appoints the members of the firm of HAVERSTOCK & OWENS LLP, a firm including Thomas B. Haverstock (Reg. No. 32,571), Jonathan O. Owens (Reg. No. 37,902), Derek J. Westberg (Reg. No. 40,872) and Richard H. Butt (Reg. No. 40,932), 260 Sheridan Avenue, Suite 420, Palo Alto, California 94306, telephone: (650) 833-0160, facsimile: (650) 833-0170, as its attorneys with full power of substitution to prosecute this application and to transact all business in the Patent and Trademark Office in connection therewith.

Please direct all correspondence regarding this application to the following:

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I hereby certify that the Assignment document filed with the application or filed subsequent to the filing date of the application, has been reviewed and I hereby certify that, to the best of my knowledge and belief, title is with **QTL Corporation**.

QTL Corporation

Dated: April 19, 1999

By: Ronald C. Elliott

Name: Ronald C. Elliott

Title: President